Fernando Resendez
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Education
University of California Riverside, Riverside CA
B.S. Computer Science

Objective

Graduate from the University of California Riverside with a B.S. in Computer Science, ready to embark on a career in software engineering. Dual citizenship (Mexico and U.S.) with diverse academic and project experience in full-stack web development, databases, machine learning, NLP, embedded systems, and cybersecurity. Considering B.S.M.S. in computer science or entering workforce. Committed to making a significant impact in the field.

Skills

- Languages: Fluent in Spanish (Native), English
- Programming: C++, Python, Java, JavaScript, Go, HTML/CSS
- Databases & Data: PostgreSQL, SQL, MongoDB, Pandas, JSON for Modern C++
- Web Development: React.js, Node.js, AJAX
- GPU Computing: CUDA, cuDF
- Machine Learning & Statistics: Machine Learning Algorithms, Data Preprocessing, Statistics
- Embedded Systems & FPGA: Embedded Systems Development, FPGA Programming
- Security: Security Architecture, Penetration Testing
- Tools & Practices: VBA (Excel), AutoCAD, Battery Management Systems, Agile Methodologies, Software Development Process

Experience / Portfolio

Rental Store DB (PostgreSQL & JAVA)

- Designed and implemented a robust SQL schema for a game rental system using PostgreSQL, emphasizing data normalization and indexing for optimal performance.
- Developed a user-friendly Java interface with GUI features for customers and administrators to manage game rentals, enhancing user experience and operational efficiency.
- Engineered SQL queries to support complex operations such as user registration, rental orders, and tracking information management, showcasing proficiency in database management and query optimization.
- Implemented error handling mechanisms and provided intuitive error messages to improve usability and ensure smooth user interactions.
- Documented project specifications, including schema design rationale, SQL scripts, and Java codebase, ensuring comprehensive project understanding and maintainability.

Manga Collectors Website

- Engineered a scalable web application using MongoDB and Express.js, supporting efficient management of user-generated content.
- Implemented advanced search and recommendation systems with NLP techniques and collaborative filtering algorithms to boost user engagement.
- Facilitated community interaction through user reviews, ratings, and personalized recommendation feeds, fostering a vibrant user community.

Steam DB

- Developed a web-based analytics dashboard for SteamDB using NVIDIA's RAPIDS cuDF, enabling GPU-accelerated data processing for enhanced query performance and scalability in comparison to CPU counterparts (Pandas).
- Implemented a responsive frontend with React.js and Node.js, facilitating dynamic query input and real-time performance monitoring to improve user interaction and experience.